

Notice of Allowability

Application No.

10/616,404

Examiner

Quang N. Vo

Applicant(s)

OSHIKAWA ET AL.

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/27/2007.
2. ☒ The allowed claim(s) is/are 1,2,8,9,15 and 16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

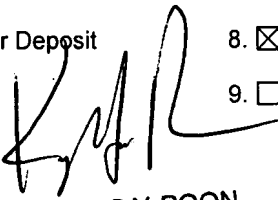
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


KING Y. POON
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Peter B. Martin on 9/5/2007.

The application has been amended (underlined portions) as follows:

In claim 1:

A printing control apparatus that carries out printing with transmission of image data to a plurality of color printing devices, the plurality of color printing devices being capable of carrying out the printing upon input of image data expressed in a first color system and process of color conversion into image data expressed in a second color system, the printing control apparatus comprising:

a specification module that specifies the color printing device among the plurality of color printing devices for carrying out the printing;

a color conversion information setting module that sets color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color system, the color conversion information setting module including

a color conversion information storage module that stores standard color conversion information used in common among the plurality of color printing devices and multiple sets of correction data for correcting the standard color conversion information, the multiple sets of correction data being preset to respective color printing devices, and a color conversion information generation module that generates the color conversion information, based on the standard color conversion information and the correction data corresponding to the specified color printing device; and a transmission module that transmits the image data and the color conversion information to the specified color printing device, wherein the multiple sets of the standard color conversion information are preset depending on the type of printing media, and wherein the color conversion information generation module generates the color conversion information using **the correction data corresponding to the specified color printing device** and the standard color conversion information corresponding to the type of printing medium that is selected by a user.

In claim 2:

A printing control apparatus that carries out printing with transmission of image data to a plurality of color printing devices, the plurality of color printing devices being capable of carrying out the printing upon input of image data expressed in a first color system and process of color conversion into image data expressed in a second color system, the printing control apparatus comprising:

a specification module that specifies the color printing device among the plurality of color printing devices for carrying out the printing;

a color conversion information setting module that sets color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color system, the color conversion information setting module including

a color conversion information storage module that stores standard color conversion information used in common among the plurality of color printing devices and multiple sets of correction data for correcting the standard color conversion information, the multiple sets of correction data being preset to respective color printing devices, and

a color conversion information generation module that generates the color conversion information, based on the standard color conversion information and the correction data corresponding to the specified color printing device; and
a transmission module that transmits the image data and the color conversion information to the specified color printing device, wherein multiple sets of the standard color conversion information are preset depending on the type of print modes, and wherein the color conversion information generation module generates the color conversion information

using **the correction data corresponding to the specified color printing device** and the standard color conversion information depending on the print mode that is selected by the user.

In claim 8:

A printing control method for causing a plurality of color printing devices to carry out printing with transmission of image data, the plurality of color printing devices being capable of carrying out the printing upon input of image data expressed in a first color system and process of color conversion into image data in a second color system, the printing control method comprising the steps of:

(a) specifying the color printing device among the plurality of color printing devices for carrying out the printing;

(b) setting color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of the color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color system, the setting of the color conversion information corresponding to the specified color printing device including

preparing standard color conversion information used in common among the plurality of printing devices and multiple sets of correction data for correcting the standard color conversion information, the correction data being preset to respective printing devices, and

generating the color conversion information, based on the standard color conversion information and the correction data corresponding to the specified printing device; and

(c) transmitting the image data and the color conversion information to the specified color printing device:

wherein the multiple sets of the standard color conversion information are preset depending on the type of printing media, and

wherein the step (b) generates the color conversion information using **the correction data corresponding to the specified color printing device** and the standard color conversion information corresponding to the type of the printing media that is selected by a user.

In claim 9:

A printing control method for causing a plurality of color printing devices to carry out printing with transmission of image data, the plurality of color printing devices being capable of carrying out the printing upon input of image data expressed in a first color system and process of color conversion into image data in a second color system, the printing control method comprising the steps of:

(a) specifying the color printing device among the plurality of color printing devices
for carrying out the printing;

(b) setting color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of the color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color system, the setting of the color conversion information corresponding to the specified color printing device including

preparing standard color conversion information used in common among the plurality of printing devices and multiple sets of correction data for correcting the standard color conversion information, the correction data being preset to respective printing devices, and

generating the color conversion information, based on the standard color conversion information and the correction data corresponding to the specified printing device; and

(c) transmitting the image data and the color conversion information to the specified color printing device,

wherein the multiple sets of the standard color conversion information are preset depending on the type of print modes, and

wherein the step (b) generates the color conversion information using the correction data corresponding to the specified color printing device and the

standard color conversion information corresponding to the type of the printing mode that is selected by the user.

In claim 15:

A computer readable recording medium in which a computer program that causes a plurality of color printing devices to carry out printing with transmission of image data upon input of the image data expressed in a first color system and process of color conversion into the image data in a second color system is recorded, the computer readable recording medium causing the computer to perform the functions of:

specifying the color printing device among the plurality of color printing devices for carrying out the printing;

setting color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of the color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color

system, the function of setting the color conversion information corresponding to the specified color printing device including the functions of

referring standard color conversion information used in common among the plurality of color printing devices and multiple sets of correction data for correcting the standard color conversion information, the multiple sets of the correction data being preset to respective color printing devices, and

generating the color conversion information based on the standard color conversion information and the correction data corresponding to the specified color printing device; and

transmitting the image data and the color conversion information to the specified color printing device~

wherein the multiple sets of the standard color conversion information are preset depending on the type of printing media, and

wherein the function of setting the color conversion information corresponding to the specified color printing device generates the color conversion information using **the correction data corresponding to the specified color printing device** the standard color conversion information corresponding to the printing media that is selected by a user.

In claim 16:

A computer readable recording medium in which a computer program that causes a plurality of color printing devices to carry out printing with transmission of image data upon input of the image data expressed in a first color system and process of color conversion into the image data in a second color system is recorded, the computer readable recording medium causing the computer to perform the functions of:
specifying the color printing device among the plurality of color printing devices for carrying out the printing;

setting color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of the color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color

system, the function of setting the color conversion information corresponding to the specified color printing device including the functions of

referring standard color conversion information used in common among the plurality of color printing devices and multiple sets of correction data for correcting the standard color conversion information, the multiple sets of the correction data being preset to respective color printing devices, and

generating the color conversion information based on the standard color conversion information and the correction data corresponding to the specified color printing device; and

transmitting the image data and the color conversion information to the specified color printing device,

wherein the multiple sets of the standard color conversion information are preset depending on the type of print modes, and

wherein the color conversion information setting function generates the color conversion information using **the correction data corresponding to the specified color printing device** and the standard color conversion information corresponding to the print mode that is selected by the user.

The following is an examiner's statement of reasons for allowance:

Renumbered as claims 1-6 for pending claims 1, 2, 8, 9, 15, 16.

Claims 1, 2, 8, 9, 15, 16 of the current application are allowed for the reason of none of prior art of record teaches nor suggests "a color conversion information setting module that sets color conversion information corresponding to the specified color printing device, the color conversion information defining the color conversion, wherein a group of color conversion information is defined in the format of a color conversion table that enables tone data in the first color system to be converted into tone data in the second color system, the color conversion information setting module including a color conversion information storage module that stores standard color conversion information used in common among the plurality of color printing devices and multiple sets of correction data for correcting the standard color conversion information, the multiple sets of correction data being preset to respective color printing devices, and a color conversion information generation module that generates the color conversion information, based on the standard color conversion information and the correction data corresponding to the specified color printing device; and a transmission module that transmits the image data and the color conversion information to the specified color printing device, wherein the multiple sets of the standard color conversion information are preset depending on the type of printing media, and wherein the color conversion information generation module generates the color conversion information using the standard color conversion information corresponding to the type of printing medium that is selected by a user."

The closest prior art Moriyama et al. (US 7,110,130) discloses an information processing apparatus, system, method of controlling the same, peripheral device and printer driver which prevent malfunction of a peripheral apparatus due to incompatibility between a control program installed in the high-order apparatus to control the peripheral device and, if the resolution of the peripheral device is enhanced, the control program of this peripheral device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang N. Vo whose telephone number is 5712701121. The examiner can normally be reached on 7:30AM-5:00PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Y. Poon can be reached on 5712727440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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